

## ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Tel: (716)691-2600

Laboratory Job ID: 480-153215-1  
Client Project/Site: NPDES Dry Weather

For:  
Solutia Inc.  
730 Worcester Street  
PO BOX 51975  
Springfield, Massachusetts 01151

Attn: Andrew Orciari



Authorized for release by:  
6/4/2019 6:06:32 PM

Steve Hartmann, Project Manager I  
(413)572-4000  
[steve.hartmann@testamericainc.com](mailto:steve.hartmann@testamericainc.com)

### LINKS

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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: Solutia Inc.  
Project/Site: NPDES Dry Weather

Job ID: 480-153215-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Solutia Inc.  
Project/Site: NPDES Dry Weather

Job ID: 480-153215-1

**Job ID: 480-153215-1**

**Laboratory: Eurofins TestAmerica, Buffalo**

## Narrative

**Job Narrative**  
**480-153215-1**

## Comments

No additional comments.

## Receipt

The sample was received on 5/9/2019 5:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

## GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Client Sample Results

Client: Solutia Inc.  
Project/Site: NPDES Dry Weather

Job ID: 480-153215-1

Client Sample ID: OF 21S

Lab Sample ID: 480-153215-1

Date Collected: 05/07/19 13:25

Matrix: Water

Date Received: 05/09/19 05:00

## Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0		ug/L			05/09/19 18:26	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/09/19 18:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/09/19 18:26	1
1,1-Dichloroethane	ND		1.0		ug/L			05/09/19 18:26	1
1,1-Dichloroethene	ND		1.0		ug/L			05/09/19 18:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/09/19 18:26	1
1,2-Dichloroethane	ND		1.0		ug/L			05/09/19 18:26	1
1,2-Dichloropropane	ND		1.0		ug/L			05/09/19 18:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			05/09/19 18:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			05/09/19 18:26	1
2-Chloroethyl vinyl ether	ND		5.0		ug/L			05/09/19 18:26	1
Benzene	ND		1.0		ug/L			05/09/19 18:26	1
Bromoform	ND		1.0		ug/L			05/09/19 18:26	1
Bromomethane	ND		1.0		ug/L			05/09/19 18:26	1
Carbon tetrachloride	ND		1.0		ug/L			05/09/19 18:26	1
Chlorobenzene	ND		1.0		ug/L			05/09/19 18:26	1
Chlorodibromomethane	ND		2.0		ug/L			05/09/19 18:26	1
Chloroethane	ND		2.0		ug/L			05/09/19 18:26	1
Chloroform	4.3		1.0		ug/L			05/09/19 18:26	1
Chloromethane	ND		2.0		ug/L			05/09/19 18:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/09/19 18:26	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/09/19 18:26	1
Dichlorobromomethane	ND		1.0		ug/L			05/09/19 18:26	1
Ethylbenzene	ND		1.0		ug/L			05/09/19 18:26	1
Methylene Chloride	ND		5.0		ug/L			05/09/19 18:26	1
Tetrachloroethene	ND		1.0		ug/L			05/09/19 18:26	1
Toluene	ND		1.0		ug/L			05/09/19 18:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/09/19 18:26	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			05/09/19 18:26	1
Trichloroethene	ND		1.0		ug/L			05/09/19 18:26	1
Trichlorofluoromethane	ND		1.0		ug/L			05/09/19 18:26	1
Vinyl chloride	ND		1.0		ug/L			05/09/19 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		60 - 140		05/09/19 18:26	1
4-Bromofluorobenzene (Surr)	104		60 - 140		05/09/19 18:26	1
Toluene-d8 (Surr)	101		60 - 140		05/09/19 18:26	1
Dibromofluoromethane (Surr)	104		60 - 140		05/09/19 18:26	1

## Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methanol	ND		1.0		mg/L			05/13/19 13:49	1

  

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Hexanone	112		62 - 129		05/13/19 13:49	1

## Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.010		mg/L		05/14/19 07:56	05/16/19 15:07	1
Zinc	ND		0.010		mg/L		05/14/19 07:56	05/16/19 15:07	1

Eurofins TestAmerica, Buffalo

## Client Sample Results

Client: Solutia Inc.  
Project/Site: NPDES Dry Weather

Job ID: 480-153215-1

**Client Sample ID: OF 21S**

**Lab Sample ID: 480-153215-1**

**Date Collected: 05/07/19 13:25**

**Matrix: Water**

**Date Received: 05/09/19 05:00**

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		05/19/19 11:18	05/20/19 13:28	1

## Lab Chronicle

Client: Solutia Inc.  
Project/Site: NPDES Dry Weather

Job ID: 480-153215-1

**Client Sample ID: OF 21S**

**Lab Sample ID: 480-153215-1**

**Date Collected: 05/07/19 13:25**

**Matrix: Water**

**Date Received: 05/09/19 05:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	593878	05/09/19 18:26	RP	TAL NSH
Total/NA	Analysis	8015B		1	472478	05/13/19 13:49	MAN	TAL BUF
Total/NA	Prep	200.7			472642	05/14/19 07:56	EMB	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	475612	05/16/19 15:07	LMH	TAL BUF
Total/NA	Prep	Distill/CN			473584	05/19/19 11:18	AJL	TAL BUF
Total/NA	Analysis	335.4		1	473752	05/20/19 13:28	MDL	TAL BUF

### Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# Accreditation/Certification Summary

Client: Solutia Inc.  
Project/Site: NPDES Dry Weather

Job ID: 480-153215-1

## Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Massachusetts	State Program	1	M-NY044	06-30-19 *
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.				
Analysis Method	Prep Method	Matrix	Analyte	
8015B		Water	Methanol	

## Laboratory: Eurofins TestAmerica, Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-19
Alaska (UST)	State Program	10	UST-087	06-30-19
Arizona	State Program	9	AZ0473	05-05-20
Arkansas DEQ	State Program	6	88-0737	04-25-20
California	State Program	9	2938	06-30-19
Connecticut	State Program	1	PH-0220	12-31-19
Florida	NELAP	4	E87358	06-30-19
Georgia	State Program	4	NA: NELAP & A2LA	12-31-19
Illinois	NELAP	5	200010	12-09-19
Iowa	State Program	7	131	04-01-20
Kansas	NELAP	7	E-10229	10-31-19
Kentucky (UST)	State Program	4	19	06-30-19
Kentucky (WW)	State Program	4	90038	12-31-19
Louisiana	NELAP	6	30613	06-30-19
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-20
Massachusetts	State Program	1	M-TN032	06-30-19
Minnesota	NELAP	5	047-999-345	12-31-19
Mississippi	State Program	4	N/A	06-30-19
Nevada	State Program	9	TN00032	07-31-19
New Hampshire	NELAP	1	2963	10-09-19
New Jersey	NELAP	2	TN965	06-30-19
New York	NELAP	2	11342	03-31-20
North Carolina (WW/SW)	State Program	4	387	12-31-19
North Dakota	State Program	8	R-146	06-30-19
Oklahoma	State Program	6	9412	08-31-19
Oregon	NELAP	10	TN200001	04-26-19 *
Pennsylvania	NELAP	3	68-00585	07-31-19
Rhode Island	State Program	1	LAO00268	12-30-19
South Carolina	State Program	4	84009 (001)	02-28-19 *
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-19
USDA	Federal		P330-13-00306	04-10-20
Utah	NELAP	8	TN00032	07-31-19
Virginia	NELAP	3	460152	06-14-19
Washington	State Program	10	C789	07-19-19
West Virginia DEP	State Program	3	219	02-28-20
Wisconsin	State Program	5	998020430	08-31-19
Wyoming (UST)	A2LA	8	453.07	12-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Buffalo



## Method Summary

Client: Solutia Inc.  
Project/Site: NPDES Dry Weather

Job ID: 480-153215-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL NSH
8015B	Nonhalogenated Organic Compounds - Direct Injection (GC)	SW846	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
Subcontract	608.3 PCB - Contest	None	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

## Sample Summary

Client: Solutia Inc.  
Project/Site: NPDES Dry Weather

Job ID: 480-153215-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-153215-1	OF 21S	Water	05/07/19 13:25	05/09/19 05:00	

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# **SUBCONTRACTED DATA**

May 17, 2019

Steve Hartman  
Test America - Westfield  
501 Southampton Road, Suite C  
Westfield, MA 01085

Project Location: 480-153215  
Client Job Number:  
Project Number: 480-153215  
Laboratory Work Order Number: 19E0551

Enclosed are results of analyses for samples received by the laboratory on May 9, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Test America - Westfield  
501 Southampton Road, Suite C  
Westfield, MA 01085  
ATTN: Steve Hartman

REPORT DATE: 5/17/2019

PURCHASE ORDER NUMBER: 3035631

PROJECT NUMBER: 480-153215

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 19E0551

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 480-153215

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OF 21S	19E0551-01	Water		608.3	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington  
Technical Representative

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 480-153215

Sample Description:

Work Order: 19E0551

Date Received: 5/9/2019

Field Sample #: OF 21S

Sampled: 5/7/2019 13:25

Sample ID: 19E0551-01

Sample Matrix: Water

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.200	0.200	0.184	µg/L	1		608.3	5/13/19	5/16/19 17:48	JMB
Aroclor-1221 [1]	<0.200	0.200	0.161	µg/L	1		608.3	5/13/19	5/16/19 17:48	JMB
Aroclor-1232 [1]	<0.200	0.200	0.199	µg/L	1		608.3	5/13/19	5/16/19 17:48	JMB
Aroclor-1242 [1]	<0.200	0.200	0.173	µg/L	1		608.3	5/13/19	5/16/19 17:48	JMB
Aroclor-1248 [2]	0.252	0.200	0.190	µg/L	1		608.3	5/13/19	5/16/19 17:48	JMB
Aroclor-1254 [1]	<0.200	0.200	0.105	µg/L	1		608.3	5/13/19	5/16/19 17:48	JMB
Aroclor-1260 [1]	<0.200	0.200	0.196	µg/L	1		608.3	5/13/19	5/16/19 17:48	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Decachlorobiphenyl [1]	84.7	30-150	
Decachlorobiphenyl [2]	82.6	30-150	
Tetrachloro-m-xylene [1]	95.0	30-150	
Tetrachloro-m-xylene [2]	90.7	30-150	



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### Sample Extraction Data

Prep Method: SW-846 3510C-608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19E0551-01 [OF 21S]	B230556	1000	10.0	05/13/19

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## QUALITY CONTROL

## Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch B230556 - SW-846 3510C

## Blank (B230556-BLK1)

Prepared: 05/13/19 Analyzed: 05/14/19

Aroclor-1016	ND	0.100	µg/L							
Aroclor-1016 [2C]	ND	0.100	µg/L							
Aroclor-1221	ND	0.100	µg/L							
Aroclor-1221 [2C]	ND	0.100	µg/L							
Aroclor-1232	ND	0.100	µg/L							
Aroclor-1232 [2C]	ND	0.100	µg/L							
Aroclor-1242	ND	0.100	µg/L							
Aroclor-1242 [2C]	ND	0.100	µg/L							
Aroclor-1248	ND	0.100	µg/L							
Aroclor-1248 [2C]	ND	0.100	µg/L							
Aroclor-1254	ND	0.100	µg/L							
Aroclor-1254 [2C]	ND	0.100	µg/L							
Aroclor-1260	ND	0.100	µg/L							
Aroclor-1260 [2C]	ND	0.100	µg/L							
Surrogate: Decachlorobiphenyl	0.996		µg/L	1.00		99.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.965		µg/L	1.00		96.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.02		µg/L	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.00		µg/L	1.00		100	30-150			

## LCS (B230556-BS1)

Prepared: 05/13/19 Analyzed: 05/14/19

Aroclor-1016	0.733	0.333	µg/L	0.833		87.9	50-140			
Aroclor-1016 [2C]	0.699	0.333	µg/L	0.833		83.9	50-140			
Aroclor-1260	0.690	0.333	µg/L	0.833		82.8	8-140			
Aroclor-1260 [2C]	0.703	0.333	µg/L	0.833		84.4	8-140			
Surrogate: Decachlorobiphenyl	2.66		µg/L	3.33		79.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.57		µg/L	3.33		77.0	30-150			
Surrogate: Tetrachloro-m-xylene	2.69		µg/L	3.33		80.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.61		µg/L	3.33		78.3	30-150			

## LCS Dup (B230556-BS1)

Prepared: 05/13/19 Analyzed: 05/14/19

Aroclor-1016	0.694	0.333	µg/L	0.833		83.2	50-140	5.48		
Aroclor-1016 [2C]	0.689	0.333	µg/L	0.833		82.7	50-140	1.50		
Aroclor-1260	0.683	0.333	µg/L	0.833		82.0	8-140	0.998		
Aroclor-1260 [2C]	0.687	0.333	µg/L	0.833		82.4	8-140	2.43		
Surrogate: Decachlorobiphenyl	2.48		µg/L	3.33		74.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.40		µg/L	3.33		72.1	30-150			
Surrogate: Tetrachloro-m-xylene	2.57		µg/L	3.33		77.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.50		µg/L	3.33		74.9	30-150			

# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

608.3

OF 21S

Lab Sample ID: 19E0551-01 Date(s) Analyzed: 05/16/2019 05/16/2019  
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9  
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.270	
	2	0.000	0.000	0.000	0.252	6.9

# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

608.3

LCS

Lab Sample ID: B230556-BS1 Date(s) Analyzed: 05/14/2019 05/14/2019

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.733	
	2	0.000	0.000	0.000	0.699	4.3
Aroclor-1260	1	0.000	0.000	0.000	0.690	
	2	0.000	0.000	0.000	0.703	1.9

# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

608.3

LCS Dup

Lab Sample ID: B230556-BSD1 Date(s) Analyzed: 05/14/2019 05/14/2019

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.694	
	2	0.000	0.000	0.000	0.689	0.1
Aroclor-1260	1	0.000	0.000	0.000	0.683	
	2	0.000	0.000	0.000	0.687	1.0

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

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# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>608.3 in Water</b>	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Eurofins TestAmerica Westfield  
501 Southampton Road Suite C  
Westfield, MA 01085  
Phone (413) 572-4000 Fax (413) 572-3707

19E0551

# Chain of Custody Record



<b>Client Information</b> Client Contact: Steve Hartmann Company: Eurofins TestAmerica Laboratories		Samp: Andrew Orciari Lab PM: E-Mail:		Carrier Tracking No(s):		COC No:	
Address: 501 Southampton Road Suite C City: Westfield State, Zip: MA, 01085 Phone: 413-572-4000 Email: Steve.Hartmann@testamericainc.com Project Name/number: Site:		Due Date Requested: TAT Requested (days): Quote #: PO #: WO #: SOW#:		Analysis Requested		Job #:	
Sample Identification QF 21S		Sample Date 5/7/19	Sample Time 1325	Sample Type (C=Comp, G=grab) G	Matrix (W=water, S=solid, O=waste/oil, BT=trace, AA=air) W	Total Number of containers	
Field Filtered Sample?		Sampers Initials		Perform MS/MSD?		608 PCB	
Special Instructions/Note:		Preservation Codes: A - HCL J - DI Water B - NaOH M - Hexane C - Zn Acetate N - None D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 H - Ascorbic Acid S - H2SO4 I - Ice Z - other (specify) Regulatory programs: MCP <input type="checkbox"/> GW1/SI <input type="checkbox"/> RCP <input type="checkbox"/> CT RSR <input type="checkbox"/> DEP Form <input type="checkbox"/> EDD Required <input type="checkbox"/>					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months					
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:					
Issued by: [Signature]		Date/Time: 5/7/19		Received by: [Signature]		Date/Time: 5/19/19	
Issued by:		Date/Time:		Received by:		Date/Time:	
Issued by:		Date/Time:		Received by:		Date/Time:	
Study Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

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I Have Not Confirmed Sample Container  
Numbers With Lab Staff Before Relinquishing  
Over Samples \_\_\_\_\_



**con-test®**  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False  
Statement will be brought to the attention of the Client - State True or False

Client Test America

Received By RLT Date 5/9/19 Time 1445

How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C F By Gun # 5 Actual Temp -7.3°C  
By Blank # \_\_\_\_\_ Actual Temp \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? \_\_\_\_\_

Are there Rushes? F Who was notified? \_\_\_\_\_

Are there Short Holds? F Who was notified? \_\_\_\_\_

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T MS/MSD? F

Were trip blanks received? F Is splitting samples required? F

Do all samples have the proper pH? \_\_\_\_\_ On COC? F

Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	<u>2</u>	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

#### Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

## Login Sample Receipt Checklist

Client: Solutia Inc.

Job Number: 480-153215-1

**Login Number: 153215**

**List Source: Eurofins TestAmerica, Buffalo**

**List Number: 1**

**Creator: Velickovic, Zoran**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Solutia
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Ver: 01/16/2019

## COOLER RECEIPT FORM



480-153215 Chain of Custody

Cooler Received/Opened On 5/9/2019 @ 0940

Time Samples Removed From Cooler 13:14 Time Samples Placed In Storage 13:18 (2 Hour Window)

1. Tracking # 9236 (last 4 digits, FedEx) Courier: FedEx  
IR Gun ID 17610176 pH Strip Lot \_\_\_\_\_ Chlorine Strip Lot \_\_\_\_\_

2. Temperature of rep. sample or temp blank when opened: 5.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: None

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) dd

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA



Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) dd

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) dd

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) dd

I certify that I attached a label with the unique LIMS number to each container (initial) dd

21. Were there Non-Conformance issues at login? YES...NO...NO Was a NCM generated? YES...NO...NO # \_\_\_\_\_



**480-153215**

[illegible]